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SUBJECT: CCMS: PROGRESS REPORTS

REF: USNATO 3846

REQUEST MISSION PASS FOLLOWING UP-DATED PROGRESS REPORTS
ON ONGOING US-PILOTED CCMS STUDIES TO CCMS PROJECTS
OFFICER SAMPAS, AS REQUESTED REFTEL.

I. AP/LPPSD

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PILOT COUNTRY - USA

THE TRANSFER OF THE U.S. RESPONSIBILITY FOR IMPLEMENTING THE PILOT STUDY ACTIVITIES FROM THE ENVIRONMENTAL PROTECTION AGENCY TO THE ENERGY RESEARCH AND DEVELOPMENT ADMINISTRATION (ERDA) WAS ANNOUNCED AT THE CCMS SPRING PLENARY SESSION. IT WAS ALSO ANNOUNCED THAT THE FOURTH INTERNATIONAL SYMPOSIUM ON AUTOMOTIVE PROPULSION/LOW POLLUTION POWER SYSTEMS DEVELOPMENT (AP/LPPSD) WILL BE HELD APRIL 18-22, 1977, IN WASHINGTON, D.C., UNDER THE SPONSORSHIP OF ERDA.

A WORKING GROUP MEETING OF THE AP/LPPSD GOVERNMENT REPRESENTATIVES AND THE MEMBERS OF THE SYMPOSIUM ORGANIZING COMMITTEE WILL BE HELD IN PARIS, OCTOBER 7-8, 1976. THE PURPOSE OF THIS MEETING IS: (1) TO REVIEW TECHNICAL PAPER ABSTRACTS AND DEVELOP THE AGENDA FOR THE SYMPOSIUM, AND (2) TO ESTABLISH FORMALLY AND DEVELOP WORK PROTOCOLS FOR TWO PILOT STUDY SUBPROJECTS ON HIGH-TEMPERATURE CERAMICS AND ON STORAGE AND UTILIZATION OF ALTERNATIVE FUELS.

II. SOLAR ENERGY

PILOT COUNTRY - USA CO PILOTS - DENMARK, FRANCE

SINCE FEBRUARY, THE UNITED KINGDOM, FRANCE, AND JAMAICA HAVE SIGNED THE MEMORANDUM OF UNDERSTANDING, MAKING A TOTAL OF TWELVE SIGNATORIES, AND SEVERAL ADDITIONAL COUNTRIES ARE EXPECTED TO SIGN IN THE NEAR FUTURE.

THE REPORT OF THE 1975 PALO ALTO SOLAR ENERGY PILOT STUDY MEETING WAS DISTRIBUTED EARLY THIS YEAR AND WAS VERY WELL RECEIVED. A SIMILAR REPORT WILL BE PREPARED ON THE PROCEEDINGS OF THE 1976 MEETING, TO BE HELD IN COPENHAGEN, 13-15 SEPTEMBER 1976. A LARGER ATTENDANCE THAN THAT AT PALO ALTO IS EXPECTED, INCLUDING THE PARTICIPATION OF SEVERAL NEW COUNTRIES, INC. IRAN, ARGENTINA, AND INDIA. SEVERAL COUNTRIES HAVE EXPRESSED AN INTEREST IN NEW SUB-GROUPS ON TROPICAL AND MEDITERRANEAN APPLICATIONS OF SOLAR ENERGY, AND A MEETING TO ORGANIZE THESE

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GROUPS WILL BE HELD IN COPENHAGEN. A MEETING OF THE ZERO ENERGY HOUSE SUB-GROUP IS EXPECTED TO TAKE PLACE IN THE LATE FALL OF THIS YEAR.

IT IS ANTICIPATED THAT APPROXIMATELY TEN SPECIAL FORMAT REPORTS WILL BE DISTRIBUTED PRIOR TO OR AT THE COPENHAGEN MEETING. THESE REPORTS, PREPARED ACCORDING TO THE CCMS SPECIAL REPORTING FORMAT, EVALUATE SYSTEM PERFORMANCE

OF SOLAR ENERGY PROJECTS IN PARTICIPATING COUNTRIES.

III. RATIONAL USE OF ENERGY

PILOT COUNTRY - USA

(1) ELECTRIC UTILITY LOAD MANAGEMENT. THE NEXT MEETING OF THE PROJECT WILL BE IN JANUARY 1977. THE EDISON ELECTRIC INSTITUTE, WHICH COORDINATED CONTACT WITH EUROPEAN UTILITIES FOR THIS PROJECT, IS PRESENTLY HOLDING DISCUSSIONS WITH UNIPED TO FINALIZE THE MEETING AGENDA. ITEMS TO BE

COVERED AT THE MEETING INCLUDE: RESULTS OF FEA RATE DEMONSTRATIONS, EPRI'S ELECTRIC UTILITY RATE DESIGN STUDY, PRESENTATION OF ERDA'S LOAD MANAGEMENT TECHNOLOGY R&D AND DISCUSSIONS ON THE FUTURE OF NUCLEAR ENERGY. IT IS EXPECTED THAT THIS MEETING WILL BE THE FINAL MEETING OF THE GROUP AND THAT THE GROUP WILL APPROVE THE REPORT AND FINALIZE THE PROJECT'S RECOMMENDATIONS.

(2). INTERNATIONAL INDUSTRIAL DATA BASE. THE MEETING OF THE INTERNATIONAL DATA BASE PROJECT AT PETTEN, THE NETHERLANDS IN MARCH 1976 COMPLETED ALL INPUT DATA ON CEMENT AND A FINAL REPORT WAS ISSUED FOR THE APRIL PLENARY SESSION. A MEETING IN JUNE 1976 WAS HELD TO CONTINUE WORK ON STEEL, AND PVC REPORTS WILL BE COMPLETED IN DRAFT FORM FOR THE NOVEMBER 1976 MEETING IN MILAN. THE COMMITTEE WILL DETERMINE WHAT NEW PROJECTS TO UNDERTAKE BEFORE THE MILAN MEETING. PRIME CANDIDATES ARE ALUMINUM, CONTAINER GLASS, DAIRY PRODUCTS, BAKERIES, FISH PROCESSING, BREWING, AND POTATO AND STARCH PROCESSING.

(3). MIUS. THE MODULAR INTEGRATED UTILITY SYSTEMS (MIUS)
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AND TOTAL ENERGY SYSTEMS PROJECT HELD ITS THIRD MEETING AT THE ELECTRICITE DE FRANCE, CENTRE DES RENARDIERES, MORET-SUR-LOING, FRANCE, MAY 18-19, 1976. THE MEETING WAS ATTENDED BY REPRESENTATIVES FROM EIGHT COUNTRIES - AUSTRIA, BELGIUM, FRANCE, GERMANY, ITALY, THE NETHERLANDS, SWEDEN, AND THE UNITED STATES.

THE TWO WORKING COMMITTEES ON DATA FORMAT AND MEASUREMENT TECHNOLOGY AGREED ON THEIR WORK PROGRAMS AND TASKS UNDER DEVELOPMENT, THE PROJECT CATALOG AND STANDARD METHODOLOGY FOR REPORTING SYSTEM PERFORMANCE RESPECTIVELY. A NEW COMMITTEE ON RESEARCH AND DEVELOPMENT NEEDS WAS FORMED TO IDENTIFY FUTURE RESEARCH NEEDS IN THE DEVELOPMENT AND IMPROVEMENT OF MODULAR INTEGRATED UTILITY SYSTEMS AND TOTAL ENERGY SYSTEMS. THE FINAL COPY OF THE

GLOSSARY OF SPECIAL TERMS WAS DISTRIBUTED TO PARTICIPANTS.
THE NEXT MEETING IS EXPECTED TO BE HELD IN GERMANY
LATER THIS YEAR.

(4). CLIMATIC CONDITIONS. AT THE STUDY GROUP'S MARCH
1976 MEETING IN COPENHAGEN, THE TITLE "TRY" (TEST REFERENCE
YEAR) WAS APPROVED FOR THE PROJECT AND THE OUTPUT
VARIABLES, UNITS, AND FORMATS TO BE USED BY ALL PARTI-
CIPATING COUNTRIES WERE STANDARDIZED. IT WAS AGREED
THAT EACH COUNTRY WILL BE FREE TO APPLY ITS OWN METHOD-
OLOGY IN GATHERING WEATHER DATA, AND THE UNITED STATES
VOLUNTEERED TO COMPILE ALL THE DATA NEEDED TO PERFORM

COMPARATIVE ENERGY ANALYSES. THE STUDY IS CURRENTLY
NEARING COMPLETION.

IV. FLUE GAS DESULFURIZATION

PILOT COUNTRY - USA

THIS NEW PILOT STUDY WAS ADOPTED BY THE SPRING 1976 CCMS
PLENARY AND APPROVED BY THE NAC IN JUNE. ITS GOAL IS
TO MAKE POSSIBLE THE UTILIZATION OF HIGH-SULFUR CONTENT
COAL WITHOUT ENVIRONMENTAL DEGRADATION. AFTER AN
ORGANIZATIONAL MEETING IN SAARBRUECKEN, FRG, SEPT 23-24,
1976, THE WORK PROGRAM OF THE STUDY WILL BE OUTLINED
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AT THE FALL CCMS PLENARY.

V. GEOTHERMAL ENERGY

PILOT COUNTRY - USA CO-PILOTS - ITALY, TURKEY

THE LAST MEETING OF THE NON-ELECTRICAL USES PROJECT WAS
HELD IN PARIS IN JUNE, 1976, UNDER THE DIRECTORSHIP OF
PAUL SANGNIER OF THE DGRST. CCMS REPORT NO. 40 WAS
DISTRIBUTED THIS SPRING. THE REPORT OF THE EXPERT GROUP
ON SMALL GEOTHERMAL POWER PLANTS HAS ALSO BEEN COMPLETED,
AND WILL BE PRESENTED AT THE FALL 1976 CCMS PLENARY.

SENIOR SCIENTISTS FROM ALLIED COUNTRIES ARE CONTINUING
TO PARTICIPATE IN FIELD OPERATIONS AT THE LOS ALAMOS
LABORATORY DRY HOT ROCKS DEMONSTRATION SITE.

IN APRIL 1976, THE ITALIAN NATIONAL RESEARCH COUNCIL AND
USERDA SIGNED AN MOU ESTABLISHING INTERNATIONAL GEO-
THERMAL INFORMATION COLLECTION CENTERS IN PISA AND
BERKELEY (CALIFORNIA). THE EXCHANGE OF GEOTHERMAL DATA
HAS ALREADY BEGUN. ROBINSON

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